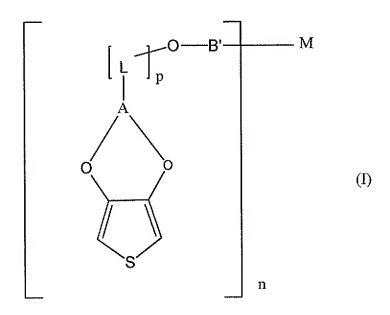
AMENDMENTS TO THE CLAIMS

Docket No.: 13077-00142

Claims 1-45 (Canceled).

46. (Currently Amended) A 3,4-Alkylenedioxythiophenes of the formula (I),



wherein

- A is a C₁ or C₃-C₅-alkylene radical which is substituted at any point by a linker L and optionally bears further substituents,
- L is a methylene group,
- p is 0 or an integer from 1 to 6,
- M is an n-functional group of the formula (II-a), (II-b) or (II-c-1) to (II-c-6),

$$* \frac{1}{w}$$

(II-a)

$$*--X^{\frac{1}{2}} - Z^{\frac{1}{2}} - Z^{\frac{1}{2}} - Z^{\frac{2}{2}} - Z^{\frac{2}{2}} - Z^{\frac{3}{2}} - X^{\frac{3}{2}} - X^{\frac{3}{2}}$$

(II-b)

wherein

 X^1 , X^2 and X^3 are substituted or unsubstituted structures selected independently from the group consisting of

and

 Z^1 and Z^2 are structures selected independently from the group consisting of

wherein

 R^x and R^y are each, independently of one another, H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an

aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, NO₂, a carboxyl group or a hydroxy group,

h is an integer from 1 to 10,

w is an integer from 1 to 5,

x, y and z are each, independently of one another, 0 or 1, and

n an integer from 1 to 8, where when n is 1, the group of the formula (II-a) or (II-b) bears a terminal group F' at the linkage points denoted by *,

wherein

F' is substituted or unsubstituted C₁-C₂₂-alkyl, C₁-C₂₂-haloalkyl, C₁-C₂₂-alkenyl, C₁-C₂₂-alkoxy, C₁-C₂₂-thioalkyl, C₁-C₂₂-iminoalkyl, C₁-C₂₂-alkoxycarbonyl, C₁-C₂₂-alkoxycarbonyloxy, a radical of an aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic acid group or sulphonate group or a hydroxy group,

B' is a bridging group of the formula (B)

$$* \iint_{Q} \operatorname{Sp} \int_{m} \operatorname{Q}_{t} \operatorname{Q}_{s}^{*}$$

$$(B)$$

wherein

q is 0 or 1,

r and s are identical or different and each are 0 or 1, with the proviso that when r is 1, s is 0 and vice versa or both are optionally 0,

t is 0 or 1,

Sp is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C_1 - C_{20} -alkylene groups, C_5 - C_{20} -arylene groups, C_2 - C_{20} -heteroarylene groups in which from one to three heteroatoms selected from the group consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C_6 - C_{20} -aralkylene groups, C_2 - C_{200} -oligoether and –polyether groups,

m is 0 or 1,

Q is O, S or NH

with the proviso that said polythiophenes is not

47. (Previously presented) The 3,4-Alkylenedioxythiophenes of claim 46, wherein

M is an n-functional group selected from the group consisting of the formulae (II-c-1) to (II-c-6),

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wherein

n is at most 4, 6 or 8,

and wherein when n is an integer below 4, 6 or 8, M is selected from the group consisting of the formulae (II-c-1) to (II-c-6) bearing a terminal group F' on the remaining 4 - n, 6 - n or 8 - n linkage points denoted by *,

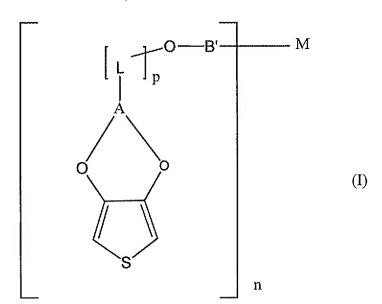
wherein

F' is H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -

alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an aliphatic C_1 - C_{22} -alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic acid group or sulphonate group or a hydroxy group.

48. (Currently Amended) The 3,4-Alkylenedioxythiophene of claim 46, having the structure of the formulae (I-a) or formula (I-b),

49. (Previously presented) A 3,4-Alkylenedioxythiophene of the formula (I),



wherein

A is a C₁-C₅-alkylene radical which is substituted at any point by a linker L and optionally bears further substituents,

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L is a methylene group,

p is 0 or an integer from 1 to 6,

M is an n-functional steroid radical or a derivative of a steroid radical,

n is 1 and

B' is a bridging group of the formula (B)

$$* \underbrace{ \left\{ \begin{array}{c} Sp \\ M \end{array} \right\}_{m} \left\{ \begin{array}{c} Q \\ M \end{array} \right\}_{s}}_{(B)}$$

wherein

q is 0 or 1,

r and s are each independently 0 or 1, with the proviso that when r is 1, s is 0 and vice versa or both are optionally 0,

t is 0 or 1,

Sp is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C_1 - C_{20} -alkylene groups, C_5 - C_{20} -arylene groups, C_2 - C_{20} -heteroarylene groups in which from one to three heteroatoms selected from the group

consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C₆-C₂₀-aralkylene groups, C₂-C₂₀₀-oligoether and -polyether groups,

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m is 0 or 1,

Q is O, S or NH.

50. (Previously presented) The 3,4-Alkylenedioxythiophene as claimed in claim 49, wherein

M is an n-functional cholesteryl radical or a derivative of the cholesteryl radical of the formula (III-a)-(III-e),

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wherein R is H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an aliphatic C_1 - C_{22} -alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic acid group or sulphonate group or a hydroxy group, and

R¹, R², R³ and R⁴ can, independently of one another, be as defined above for R.

51. (Previously presented) A process for preparing a polythiophene comprising polymerizing the 3,4-alkylenedioxythiophene as claimed in claim 46.

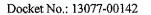
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- 52. (Currently Amended) The process of Claim 51 wherein a mixture of two or more compounds of Formula 1 are mixed together to form a mixture and the mixture is polymerized.
- 53. (Previously presented) A process for preparing electrical or electronic components, lightemitting components, for antistatic coating, in optoelectronics or in solar energy technology comprising incorporating the polythiophene according to claim 46.
- 54. (Currently Amended) A polythiophene which comprise recurring units of the formula (IV),

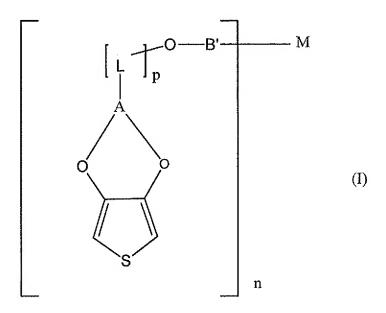
produced according to the process of claim 51

with the proviso that said polythiophenes is not

- 55. (Previously presented) A process for preparing electrical or electronic components, light-emitting components, for antistatic coating, in optoelectronics or in solar energy technology comprising incorporating the polythiophene of Claim 54.
- 56. (Previously presented) A process for preparing conductive layers comprising incorporating the polythiophene according to Claim 54.
- 57. (Previously presented) The process according to claim 52, which further comprises heating the layer at a temperature form 80°C to 300°C.
- 58. (Previously presented) The process according to claim 56, which further comprises heating the layer at a temperature form 80°C to 300°C.
- 59. (Cancelled)

- 60. (Currently amended) A process for preparing the polythiophene as claimed in elaim 44, claim 54, comprising oxidatively polymerizing electrochemically compounds of the formula (I).
- 61. (Cancelled)
- 62. (Previously presented) The polythiophene of claim 59, wherein they are cationically and electrically conductive and contain bound anions as counterions to balance the positive charge.
- 63. (Previously presented) The polythiophene of Claim 61, wherein the counterions are polyanions of polymeric carboxylic acids or polymeric sulphonic acids.
- 64. (Currently Amended) The polythiophene according to elaim 44, claim 54, wherein they are uncharged and semiconducting.
- 65. (Previously presented) Process for the preparing polythiophene as claimed in claim 46 which comprises oxidatively polymerizing electrochemically compounds of the formula (I).
- 66. (Currently Amended) A 3,4-Alkylenedioxythiophenes of the formula (I),





wherein

A is a C₁-C₅-alkylene radical which is substituted at any point by a linker L and optionally bears further substituents,

L is a methylene group,

p is 0,

M is an n-functional group of the formula (II-a), (II-b) or (II-c-1) to (II-c-6),

(II-a)

$$\star - X^{1} - \left[-Z^{1} \right]_{X} X^{2} - \left[-Z^{2} \right]_{y} \left[-X^{3} \right]_{z} \star$$
(II-b)

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wherein

 X^1 , X^2 and X^3 are substituted or unsubstituted structures selected independently from the group consisting of

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and

 Z^1 and Z^2 are structures selected independently from the group consisting of

wherein

 R^x and R^y are each, independently of one another, H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an

aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, NO₂, a carboxyl group or a hydroxy group,

h is an integer from 1 to 10,

w is an integer from 1 to 5,

x, y and z are each, independently of one another, 0 or 1, and

n an integer from 1 to 8, where when n is 1, the group of the formula (II-a) or (II-b) bears a terminal group F' at the linkage points denoted by *,

wherein

F' is substituted or unsubstituted C₁-C₂₂-alkyl, C₁-C₂₂-haloalkyl, C₁-C₂₂-alkenyl, C₁-C₂₂-alkoxy, C₁-C₂₂-thioalkyl, C₁-C₂₂-iminoalkyl, C₁-C₂₂-alkoxycarbonyl, C₁-C₂₂-alkoxycarbonyloxy, a radical of an aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic acid group or sulphonate group or a hydroxy group,

B' is a bridging group of the formula (B)

$$* \iint_{Q} Sp \int_{m} \int_{r} Q \int_{t} Sp \int_{s} Sp \int_{$$

wherein

q is 0 or 1,

r and s are identical or different and each are 0 or 1, with the proviso that when r is 1, s is 0 and vice versa or both are optionally 0,

(B)

t is 0 or 1,

is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C₁-C₂₀-alkylene groups, C₅-C₂₀-arylene groups, C₂-C₂₀-heteroarylene groups in which from one to three heteroatoms selected from the group consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C₆-C₂₀-aralkylene groups, C₂-C₂₀₀-oligoether and –polyether groups,

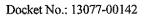
m is 0 or 1,

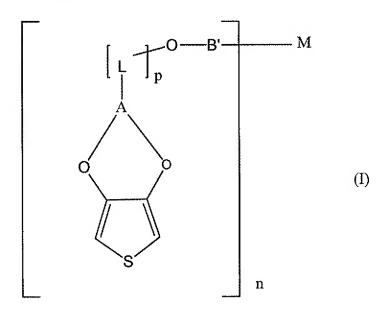
Q is O, S or NH

with the proviso that said polythiophenes is not

$$O-(CH_2)_6-O$$

67. (Currently Amended) A 3,4-Alkylenedioxythiophenes of the formula (I),





wherein

A is a C_1 - C_5 -alkylene radical which is substituted at any point by a linker L and optionally bears further substituents,

L is a methylene group,

p is 0 or an integer from 1 to 6,

M is an n-functional group of the formula (II-a), (II-b) or (II-c-1) to (II-c-6),

$$*-\left[-X^{\frac{1}{2}}\right]_{W}*$$

(II-a)

*
$$X^{1}$$
 $\left[-Z^{1}\right]_{X}$ X^{2} $\left[-Z^{2}\right]_{y}$ $\left[-X^{3}\right]_{z}$ * (II-b)

wherein

 X^1 , X^2 and X^3 are substituted or unsubstituted structures selected independently from the group consisting of

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and

 Z^1 and Z^2 are structures selected independently from the group consisting of

wherein

 R^x and R^y are each, independently of one another, H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an

aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen,

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pseudohalogen, NO2, a carboxyl group or a hydroxy group,

h is an integer from 1 to 10,

w is an integer from 1 to 5,

x, y and z are each, independently of one another, 0 or 1, and

n an integer from 1 to 8, where when n is 1, the group of the formula

(II-a) or (II-b) bears a terminal group F' at the linkage points

denoted by *,

wherein

F' is substituted or unsubstituted C₁-C₂₂-alkyl, C₁-C₂₂-haloalkyl, C₁-C₂₂-alkenyl, C₁-C₂₂-alkoxy, C₁-C₂₂-thioalkyl, C₁-C₂₂-iminoalkyl, C₁-C₂₂-alkoxycarbonyl, C₁-C₂₂-alkoxycarbonyloxy, a radical of an aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen,

pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic

acid group or sulphonate group or a hydroxy group,

B' is a bridging group of the formula (B)

(B)

wherein

q is 0 or 1,

 \mathbf{r} is 1,

s is 0,

t is 0 or 1,

sp is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C₁-C₂₀-alkylene groups, C₅-C₂₀-arylene groups, C₂-C₂₀-heteroarylene groups in which from one to three heteroatoms selected from the group consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C₆-C₂₀-aralkylene groups, C₂-C₂₀₀-oligoether and –polyether groups,

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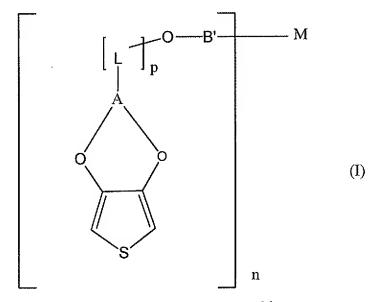
m is 0 or 1,

Q is O, S or NH

with the proviso that said polythiophenes is not

$$\begin{array}{c|c} & & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\$$

68. (Currently amended) A 3,4-Alkylenedioxythiophenes of the formula (I),



wherein

- A is a C₁-C₅-alkylene radical which is substituted at any point by a linker L and optionally bears further substituents,
- L is a methylene group,
- p is 0 or an integer from 1 to 6,
- M is an n-functional group of the formula (II-a), (II-b) or (II-c-1) to (II-c-6),

$$\star - \left[-X^{\frac{1}{2}}\right]_{W} \star$$

(II-a)

$$\star \frac{}{} X^{\frac{1}{2}} \left[-Z^{\frac{1}{2}} \right]_{X} X^{\frac{2}{2}} \left[-Z^{\frac{2}{2}} \right]_{y} \left[-X^{\frac{3}{2}} \right]_{z} \star$$

(II-b)

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wherein

 $X^1,\,X^2$ and X^3 are substituted or unsubstituted structures selected independently from the group consisting of

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and

 Z^1 and Z^2 are structures selected independently from the group consisting of

wherein

 R^x and R^y are each, independently of one another, H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an

pseudohalogen, NO₂, a carboxyl group or a hydroxy group,

aliphatic C1-C22-alkanecarboxylic acid or of acrylic acid, halogen,

h is an integer from 1 to 10,

w is an integer from 1 to 5,

x, y and z are each, independently of one another, 0 or 1, and

n an integer from 1 to 8, where when n is 1, the group of the formula

(II-a) or (II-b) bears a terminal group F' at the linkage points

denoted by *,

wherein

F' is substituted or unsubstituted C₁-C₂₂-alkyl, C₁-C₂₂-haloalkyl, C₁-

C22-alkenyl, C1-C22-alkoxy, C1-C22-thioalkyl, C1-C22-iminoalkyl,

C₁-C₂₂-alkoxycarbonyl, C₁-C₂₂-alkoxycarbonyloxy, a radical of an

aliphatic C1-C22-alkanecarboxylic acid or of acrylic acid, halogen,

thiocyano, isocyano, isothiocyano, a nitro (NO2) group, a carboxyl

group, a sulphonic acid group or sulphonate group or a hydroxy

group,

B' is a bridging group of the formula (B)

$$* \iint_{Q} Sp \int_{m} \int_{0}^{r} Q t \int_{0}^{s} ds$$

(B)

wherein

q is 0 or 1,

r and s are identical or different and each are 0 or 1, with the proviso that when r is 1, s is

0 and vice versa or both are optionally 0,

t is 0 or 1,

sp is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C₁-C₂₀-alkylene groups, C₅-C₂₀-arylene groups, C₂-C₂₀-heteroarylene groups in which from one to three heteroatoms selected from the group consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C₆-C₂₀-aralkylene groups, C₂-C₂₀₀-oligoether and -polyether

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m is 0 or 1,

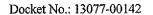
Q is O, S or NH

groups,

with the proviso that said polythiophenes is not

$$O$$
— $(CH_2)_6$ — O — CN

69. (New) A polythiophene which comprise recurring units of the the formulae (IV-a) and (IV-b),



wherein

M is an n-functional group of the formula (II-a) or (II-b),

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*
$$X^1 - Z^1 - X^2 - Z^2 - X^3 - Z^3 - Z^5$$
(II-b)

wherein

 X^1 , X^2 and X^3 are substituted or unsubstituted structures selected independently from the group consisting of

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and

 Z^1 and Z^2

are structures selected independently from the group consisting of

wherein

 R^x and R^y are each, independently of one another, H, substituted or unsubstituted C_1 - C_{22} -alkyl, C_1 - C_{22} -haloalkyl, C_1 - C_{22} -alkenyl, C_1 - C_{22} -alkoxy, C_1 - C_{22} -thioalkyl, C_1 - C_{22} -iminoalkyl, C_1 - C_{22} -alkoxycarbonyl, C_1 - C_{22} -alkoxycarbonyloxy, a radical of an aliphatic C_1 - C_{22} -alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, NO_2 , a carboxyl group or a hydroxy group,

h is an integer from 1 to 10,

w is an integer from 1 to 5,

x, y and z are each, independently of one another, 0 or 1, and

n is 1 or 2, where when n is 1, the group of the formula (II-a) or (II-

b) bears a terminal group F at the linkage points denoted by *,

wherein

F' is substituted or unsubstituted C₁-C₂₂-alkyl, C₁-C₂₂-haloalkyl, C₁-C₂₂-alkenyl, C₁-C₂₂-alkoxy, C₁-C₂₂-thioalkyl, C₁-C₂₂-iminoalkyl, C₁-C₂₂-alkoxycarbonyl, C₁-C₂₂-alkoxycarbonyloxy, a radical of an aliphatic C₁-C₂₂-alkanecarboxylic acid or of acrylic acid, halogen, pseudohalogen, a nitro (NO₂) group, a carboxyl group, a sulphonic acid group or sulphonate group or a hydroxy group,

B' is a bridging group of the formula (B)

$$* = \left\{ \begin{array}{c} Sp \\ M \end{array} \right\}_{m} \left\{ \begin{array}{c} Q \\ M \end{array} \right\}_{s}$$

$$(B)$$

wherein

q is 0 or 1,

r and s are each 0 or 1, with the proviso that when r is 1, s is 0 and vice versa or both are optionally 0,

t is 0 or 1,

sp is a spacer selected from the group consisting of substituted and unsubstituted linear or cyclic C₁-C₂₀-alkylene groups, C₅-C₂₀-arylene groups, C₂-C₂₀-heteroarylene groups in which from one to three heteroatoms selected from the group consisting of N, O and S can additionally be present in the heteroaromatic ring or ring system, C₆-C₂₀-aralkylene groups, C₂-C₂₀₀-oligoether and –polyether groups,

m is 0 or 1,

Q is O, S or NH.